



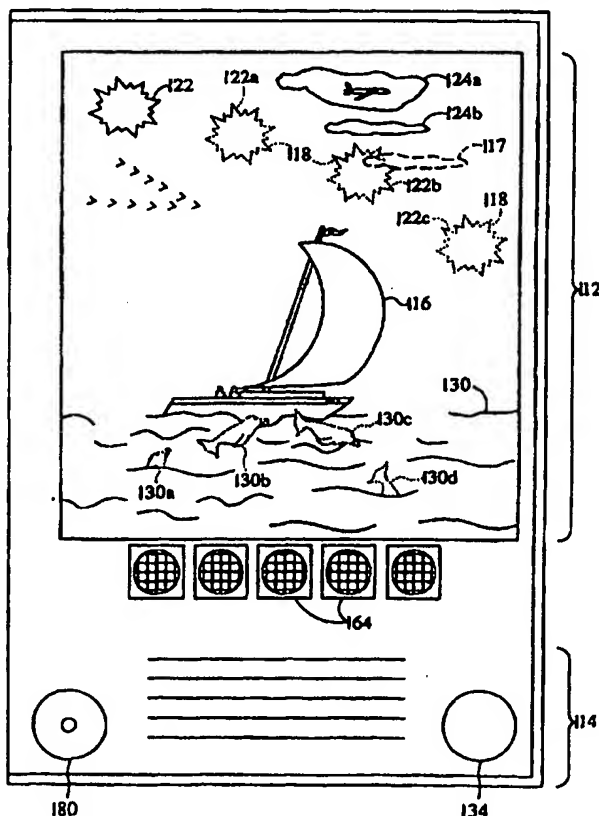
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<p>(21) International Application Number: PCT/US97/12814 (22) International Filing Date: 23 July 1997 (23.07.97) (30) Priority Data: 08/685,236 23 July 1996 (23.07.96) US 08/685,238 23 July 1996 (23.07.96) US (71) Applicant: JUNKYARD DOGS, LTD. [US/US]; 675 North First Street #PH3, San Jose, CA 95112 (US). (72) Inventors: JOHNSON, William, Robin; Box 8, Site 1, R.R. #1, Strathmore, Alberta T1P 1J6 (CA). HEROPOULOS, George, W.; 229 Manley Court, San Jose, CA 95139 (US). TORMA, Tamas, L.; 148 Benchlands Terrace, Canmore, Alberta T0L 0M0 (CA). (74) Agents: HAMRICK, Claude, A., S. et al.; Oppenheimer Poms Smith, Suite 600, Ten Almaden Boulevard, San Jose, CA 95113 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>

(54) Title: ELECTROLUMINESCENT DISPLAY APPARATUS

(57) Abstract





A panel, page or substrate (112) is provided having a tier of electroluminescent (EL) material which forms a pattern corresponding to a series of images (130a-d). When illuminated in accord with a predetermined sequence, the series of images provide an illusion of movement. A sound generator (134) is provided to produce a predetermined audible response associated with the predetermined sequence. One or more flexible membrane switches (164) are coupled to simultaneously activate both the EL material and the sound generator when depressed. The panel may be embodied as a flexible web that is adapted to roll up over a spring loaded shaft.








ELECTROLUMINESCENT DISPLAY APPARATUS

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Applicant: JUNKYARD DOGS LTD (US)
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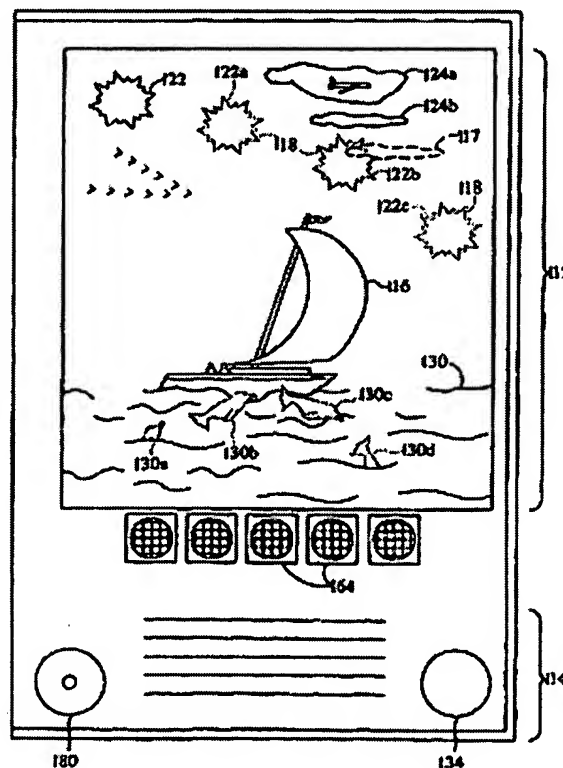
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 US5652930
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Abstract of WO9803962

A panel, page or substrate (112) is provided having a tier of electroluminescent (EL) material which forms a pattern corresponding to a series of images (130a-d). When illuminated in accord with a predetermined sequence, the series of images provide an illusion of movement. A sound generator (134) is provided to produce a predetermined audible response associated with the predetermined sequence. One or more flexible membrane switches (164) are coupled to simultaneously activate both the EL material and the sound generator when depressed. The panel may be embodied as a flexible web that is adapted to roll up over a spring loaded shaft.



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